

Technical Support Centers Summary Report

Key

(1) In Progress
(2) On Hold
(3) Completed
(4) On-Going
7/8/2014

A technical
A request for
A technical
A technical
Date of status
Multi-region

Program / Regional Office	Program / Regional Office Contact	Technical Support Center	Center Contact	Center Contact Phone	Requestor	Request Date	Status	Site Name	City	State	Description
GW Forum	Herb Levine	Site Characterization and Monitoring	Felicia Barnett	404-456-8659	GW Forum	5/21/2013	(1) In Progress	N/A	N/A		Provided Ground Water (GW) Forum a draft issue paper on 10/18/2013 comparing ground water sampling between two or more methods. The GW forum met with the SCMTSC on 3/12/2014 to discuss and start its revisions on the paper. Once the GW Forum has completed their revisions and comments, the SCMTSC will prepare a final draft for review.
ORD/NCEA-Cin	Annette Gatchett	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Annette Gatchett, Acting Director, NCEA-Cincinnati	6/11/2014	(3) Completed				Request for any information on STSC technical support provided in 2013-14 to the State of Oklahoma.
OSWER/OSRTI- ARD	Michele Burgess	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Emily Reinke, Health Effects Research Division, Army Institute of Public Health	4/11/2014	(3) Completed				Requested clarification on inconsistent information found while evaluating tier-3 sources: Provisional Peer-Reviewed Toxicity Values (PPRTVs) prior to 2009 have the statement "screening values are considered to be below tier-3, other (peer-reviewed) toxicity values," while PPRTVs 2009-present do not. Lynn Flowers, ORD/NCEA, clarified via STSC.
OSWER/OSRTI- ERT	Marc Greenberg	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Marc Greenberg (OSWER/OSRTI- ERT [R02])	7/8/2014	(4) On-Going				ERASC Request #015 Question: "What is a scientifically defensible definition for the depth of the biotic zone in soils and sediments?" Response Document Title: <i>Determination of the Biologically Relevant Sampling Depth for Terrestrial and Aquatic Ecological Risk Assessments. Part 1. Terrestrial Biotic Zone. Part 2. Aquatic Biotic Zone.</i> Status Update: Response document is in final preparation (i.e., external peer review was completed.; comments are being addressed.).
OSWER/OSRTI- ERT [Region 2]	Marc Greenberg	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Marc Greenberg (OSWER/OSRTI- ERT [R02]) Katie Matta (R03) Bruce Pluta (R03) Carolyn Bury (R05) Bruce Duncan (R10)	7/8/2014	(1) In Progress				ERASC Request #021 Question: "Should we incorporate climate change issues in ecological risk assessments of contaminated sites?" Response Document Title: <i>Climate Change Issues In Ecological Risk Assessments at Hazardous Waste Sites.</i> Status Update: Response document is in initial stage of development.
Region 01	Cornell Rosiu	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Cornell Rosiu (R01) Steve Wharton (R08) Bruce Duncan (R10)	7/8/2014	(3) Completed				ERASC Request #009 Question: "What are the mechanisms that may transport hydrophobic organic contaminants (HOCs) to ground water and downgradient media, and how will these mechanisms affect exposures, bioaccumulation and toxic effects on ecological receptors?" Response Document Title: <i>Hydrophobic Organic Contaminant (HOC) Transport Mechanisms in Groundwater and Downgradient Surface Water, and Estimation of Bioaccumulation and Ecological Risk.</i> Status Update: Final response document was posted on the NCEA internet and is available to the public.
Region 01	Cheryl Sprague	Ground Water	David Burden	580-436-8606	Region 1	4/10/2014	(3) Completed	Beede Waste Oil Superfund Site	Plaistow	NH	Completed a review of the 90% Pre-Final Thermal Design Report - Phase I.
Region 01	Darryl Luce	Ground Water	David Burden	580-436-8606	Region 1	4/7/2014	(3) Completed	Sylvester (Gilson Road) Superfund Site	Nashua	NH	Reviewed detailed ground water elevation data obtained from monitoring wells and were evaluated in an effort to identify any significant hydrologic changes to the ground water system.
Region 01	Ginny Lombardo	Site Characterization and Monitoring	Felicia Barnett	404-562-8659	Region 01	11/21/2012	(2) On Hold	Ft Devens - Shepley's Hill	Middlesex County	MA	Develop statistical analysis results for arsenic in ground water indicating statistical models run, general interpretation, potential issues or outliers, and proposed background data set. Provided example on 11/20. Awaiting data from Region.

Region 01	Region 01	Carol Keating	Engineering TSC	John McKernan	513-569-7415	Region 1	1/31/2014	(4) On-Going	Ft. Devens	Ft. Devens	MA	At the request of Region 1, Drs. Robert Ford and John McKernan attended a conference call regarding Shepley's Hill Landfill (located at Ft. Devens) and surrounding Superfund site to discuss conducting a study to develop benchmark ground water quality targets for arsenic. Dr. Ford also provided input to the Remedial Project Manager (RPM) on a maintenance plan update.
Region 01	Region 01	Gerardo Ramos	Engineering TSC	John McKernan	513-569-7415	Region 1	10/24/2013	(4) On-Going	Mohawk Tannery	Nashua	NH	Dr. Ed Barth continues to provide technical support to the RPM in the form of comments on a draft plan for the Mohawk Lagoon stabilization project, and suggestions on primary research articles to aid in remediation efforts at the site.
Region 02	Region 02	Marian Olsen	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Christina Adryan, Resource Control Consultants	4/16/2014	(3) Completed				Request for toxicity info on 1-Methylnaphthalene (CAS 90-12-0)/to verify 2008 PPRTV was most recent data available. Requestor found conflicting evidence in ATSDR, EPA/OAR which listed 1-Methylnaphthalene as NOT a carcinogen vs. 2008 PPRTV which said it IS a carcinogen. STSC informed requestor carcinogen info in PPRTV was from a single study which shows suggestive evidence of carcinogenic potential, as indicated in the PPRTV.
Region 02	Region 02	Marian Olsen	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Marian Olsen, EPA Region 02 RRL	5/6/2014	(1) In Progress				Request for original 1980's documentation for polychlorinated biphenyls (PCBs) (CAS 1336-36-3) RfD and any volatilization information. Similar request made in 2003 (FY03-122), so several references were retrieved from 1996 PPRTV. STSC/ERASC Administrator T. Shannon requested studies be sent to Hotline Director P. Kaiser, files saved to O: drive, and notification be sent to Administrator/Director.
Region 02	Region 02	Clifford Ng	Ground Water	David Burden	580-436-8606	Region 2	10/5/2013	(4) On-Going	DuPont Pompton Lakes Works Site	Pompton Lakes	NY	Reviewed the Enhanced In-Situ Bioremediation (EISB) Report, the results and the conceptual full-scale EISB designs.
Region 02	Region 02	Mark Austin	Engineering TSC	John McKernan	513-569-7415	Region 2	5/20/2013	(4) On-Going	American Cyanamid Co.	Bound Brook	NJ	Dr. Ed Barth continues to provide technical support to this site. This quarter, Dr. Barth provided support to the region in the form of comments on an in-situ stabilization/solidification plan that is to be implemented in OUS, and provided review of a Tier 4 treatability study.
Region 02	Region 02	Diana Cutt	Engineering TSC	John McKernan	513-569-7415	Region 2	7/7/2013	(4) On-Going	San German Ground Water Contamination	San German	PR	Dr. John McKernan is participating on project update calls. John participated in a discussion of phase 2 vapor intrusion (VI) study carried out on the site and was notified that VI sampling for phase 3 has been delayed, possibly until next quarter. Douglas Grosse continues to lead the effort to draft an engineering issue paper on passive air contaminant samplers for VI relevant to this site.
Region 03	Region 03	Jack Kelly	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Jack Kelly, On Scene Coordinator, EPA Region 03	4/8/2014	(3) Completed	Freedom Industries	Charleston	WV	Requested air screening values for 4-MCHM (CAS 34885-03-5) related to chemical spill at Freedom Industries, which STSC calculated and provided.
Region 03	Region 03	Dawn Oven	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Lisa Smith, Mahfood Group LLC	5/1/2014	(3) Completed				Requested if archived PPRTV/HEAST values found in RAIS database are still usable/supported by STSC. STSC responded that archived/RAIS values are retired and no longer supported/maintained by STSC. Informed requestor no PPRTVs were available, but inorganic arsenic (CAS 7440-38-2) and cadmium (CAS 7440-43-9) are on IRIS track for assessment. Referred to IRIS hotline.
Region 03	Region 03	Bruce Pluta	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Marc Greenberg (OSWER/OSRTI-ERT [R02]) Katie Matta (R03) Bruce Pluta (R03) Carolyn Bury (R05) Bruce Duncan (R10)	7/8/2014	(1) In Progress				ERASC Request #021 Question: "Should we incorporate climate change issues in ecological risk assessments of contaminated sites?" Response Document Title: <i>Climate Change Issues In Ecological Risk Assessments at Hazardous Waste Sites.</i> Status Update: Response document is in initial stage of development.
Region 03	Region 03	Katie Matta	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Marc Greenberg (OSWER/OSRTI-ERT [R02]) Katie Matta (R03) Bruce Pluta (R03) Carolyn Bury (R05) Bruce Duncan (R10)	7/8/2014	(1) In Progress				ERASC Request #021 Question: "Should we incorporate climate change issues in ecological risk assessments of contaminated sites?" Response Document Title: <i>Climate Change Issues In Ecological Risk Assessments at Hazardous Waste Sites.</i> Status Update: Response document is in initial stage of development.
Region 03	Region 03	Darius Ostrauskas	Ground Water	David Burden	580-436-8606	Region 3	2/4/2014	(3) Completed	Fike/Artel Superfund Site	Nitro	WV	Technical review of the Limited Scale Pilot Test Workplan - Response to US EPA Comments

Region 03	Region 03	Kate Lose	Site Characterization and Monitoring	Bill Hagel	215-814-3053	Region 3	4/15/2014	(4) Ongoing	Hanlin-Allied-Olin (HAO) Site	Moundsville	WV	A former chloro-alkali plant once sat on a portion of the H-A-O site, and the soil and ground water are contaminated with numerous volatile and semi-volatile organic compounds (VOCs and SVOCs) and mercury (Hg). The Potentially Responsible Parties (PRPs) prepared a draft Remedial Investigation (RI) report that includes a Conceptual Site Model (CSM) for the Mercury Cell Building at the site. The Region 3 Remedial Project Manager (RPM) requested that the SCMTSC evaluate the PRPs response to EPA comments on the RI Report related to mercury speciation and the potential for mercury vapor transport. SCMTSC reviewed the materials and identified potentially significant technical issues. The CSM document is concise, well written, and easy to understand. However, SCMTSC recommends that the PRPs or the Region run geochemical models such as MINTEQ, PHREEC, or Geochemist Workbench to fully understand the speciation of mercury. The PRPs' responses to EPA's comments indicate that mercury vapor migration was analyzed by air sampling in the Mercury Cell building; the PRPs did not provide data and a map of the measurement locations in the documentation. Better representation of the data through maps and models would help EPA better understand the CSM and make more effective risk management decisions for this site.
Region 03	Region 03	Ron Davis	Site Characterization and Monitoring	Felicia Barnett	404-562-8659	Region 03	8/12/2013	(4) On-Going	C&R Battery	Richmond	VA	8/28/13 - Provided statistical analysis and review of background pH data study that was received from Verizon. The report summarizes work done to clean-up the site and the recently collected data. The review noted that even though pH concentrations collected during 2011 (1 value), 2012 (4 values) through 2013 (1 value) from the six monitoring wells (MWs) are greater than the background threshold value (BTW) estimate of 3.996, it is noted that pH levels of MWs 6, 7, and 10 are significantly higher than those of the MWs 8, 9, and 11, which may indicate that the area of concern for pH issues is only a portion of the site. Also, based on the regression results, it may be inferred that overall sulfuric acid at the C&R Battery Site is potentially influencing pH levels of the ground water MWs, and as SO4 increases, pH levels in MWs tend to decrease. Data from more quarters are needed to confirm these findings and conclusions. 4/30/14 - Attend discussions and provide comments on on-going Feasibility Study and background calculations.
Region 03	Region 03	Chris Sklany	Site Characterization and Monitoring	Bill Hagel	215-814-3053	Region 03	5/21/2013	(2) On Hold	Metro Container	Trainer	PA	The SCM-TSC researched and identified hazardous substances found in paints, lacquers, and varnishes manufactured from 1983 to 1988, including constituents that may have been outlawed or discontinued within that time frame but were still in circulation. SCM-TSC also evaluated the likelihood that paints (varnishes etc.) shipped to the site from an industrial facility after 1983 could have contained banned or discontinued hazardous substances. This included any hazardous substances that were constituents of the compounds on a list provided by Region 3, including daughter products from partial degradation or weathering. The assignment was amended to include a description of the possible solid, liquid, and gaseous waste products from the hardwood charcoal-sulfur CS2 manufacturing process in the period from 1920 to circa 1959. In addition, SCMTSC will review paraffin wax manufacturing processes and provide an opinion of the likelihood that the paraffin wax manufacturing processes outlined in the document were conducted at the site. This will include a description of possible solid, liquid, and gaseous waste products that reasonably could have been produced in the process. This project is on hold while the Region determines if the additional information they requested will attribute the waste at the site to the site owners and operators.
Region 03	Region 03	Bruce Beach	Engineering TSC	John McKernan	513-569-7415	Region 3	5/12/2014	(1) In Progress	Naval Surface Warfare Center - Dahlgren	King George	VA	Dr. Souhail Al-Abed is leading an effort to research the use of nanomaterials in sediment caps to actively remediate contaminated sediments. ETSC has new involvement in the Dahlgren Superfund site. This project has received OSP/STL funding, as well as OSRTI and ETSC support. A statement of work and Technical Directive have been initiated for this project.
Region 03	Region 03	Scott Wesselkamper	Engineering TSC	John McKernan	513-569-7415	Region 3	5/2/2104	(3) Completed	Elk River spill of MCHM Freedom Industries site	Charleston	WV	Dr. Paul McCauley provided mathematical equations and performed calculations that allowed the requestor (NCEA) to determine the lower odor threshold for MCHM in air. The equations were based on existing data from West Virginia on concentrations present from the MCHM release in water and the environment.

Region 04	Region 04	Kevin Koporec	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Connie Brower, North Carolina Department of Environment & Natural Resources	6/5/2014	(1) In Progress						Request for toxicity values (RfD chronic, OSF) for acetic acid (CAS 64-19-7) and P-toluic acid (CAS 99-94-5) for aid in North Carolina ground water standards update. Requestor asked if acetone would be a good surrogate for acetic acid, and benzoic acid a surrogate for P-toluic acid.
Region 04	Region 04	Glenn Adams	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Sharon Thoms (R04) Glenn Adams (R04) Bruce Duncan (R10)	7/8/2014	(4) On-Going						ERASC Request #018 Question: "Geochemical Evaluations--Statistics or no Statistics?" Response Document Title: <i>Separating Anthropogenic Metals Contamination from Background: A Critical Review of Geochemical Evaluations and Proposal of Alternative Methodology.</i> Status Update: Response document is in final preparation (i.e., external peer review completed; comments are being addressed).
Region 04	Region 04	Sharon Thoms	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Sharon Thoms (R04) Glenn Adams (R04) Bruce Duncan (R10)	7/8/2014	(4) On-Going						ERASC Request #018 Question: "Geochemical Evaluations--Statistics or no Statistics?" Response Document Title: <i>Separating Anthropogenic Metals Contamination from Background: A Critical Review of Geochemical Evaluations and Proposal of Alternative Methodology.</i> Status Update: Response document is in final preparation (i.e., external peer review completed; comments are being addressed).
Region 04	Region 04	Lila Llamas	Ground Water	David Burden	580-436-8606	Region 4	9/27/2013	(4) On-Going	Parris Island, SC Marine Corp Depot, Site 27/55	Parris Island	SC			Reviewed the Draft Work Plan, Pre-Design Investigation, Site 27/55 Motor-T Area/Equipment Parade Deck, MCRD Parris Island, SC
Region 04	Region 04	Brad Jackson	Site Characterization and Monitoring	Bill Hage1	215-814-3053	Region 04	1/16/2014	(1) In Progress	B.F. Goodrich	Calvert City	KY			The B.F. Goodrich site is the location of several chemical plants that have operated along the south side of the Tennessee River since the mid-1950s. Chemical production operations began in 1953 at the site, and one of the primary chemicals produced was a vinyl chloride monomer used in the production of polyvinyl chloride (PVC). Using data collected by PRPs, SCMTSC prepared a Draft Remedial Investigation (RI) report for this site. This report is not a critical review of the PRP reports but an independent document based on site data. EPA Region 4 is currently reviewing the SCMTSC Draft RI Report. Additional planned tasks for SCMTSC include developing a Risk Assessment Report and potentially a Feasibility Study.
Region 04	Region 04	Leigh Lattimore	Site Characterization and Monitoring	Felicia Barnett	404-562-8659	Region 04	1/22/2013	(4) On-Going	Marshall Space Flight Center	Huntsville	AL			On 3/29/13, provided MSFC with background study examples describing how (using statistical and formalized graphical methods) a site-specific background data set can be extracted from the available onsite data set and how extracted site-specific background data set represented by lower concentrations of the onsite data can be used to compute defensible and reliable estimates of background threshold values (BTV's). All limitations of the method will be established and qualified data needs and comparison checks will be identified. On November 22, 2013, the RPM provided the SCMTSC with the PRP-created background document for review. Comments on the document were provided to the RPM on December 12. There were significant concerns over the statistical process performed in the document. If those concerns cannot be addressed, then a more labor intensive method to establish background may have to be used. Should the site be able to use this statistical approach, it would save field labor and costs in establishing background concentrations for the site. The Region may request the SCMTSC assist in performing the analysis of the data. Reviewed MSFC contractor iterations in April 2014 and provided comments on their process.
Region 04	Region 04	Bret Thomas	Site Characterization and Monitoring	Felicia Barnett	404-562-8659	Region 04	6/4/2012	(2) On Hold	Anniston Army Depot	Anniston	AL			Performed a statistical analysis of the site Pygmy Sculpin fish respiratory response data and provided an interpretation of the analysis. Results were inconclusive. Consulted on potential changes to the testing and addition of older data for more accurate response. The Army is considering the possible choices for additional work to be performed.
Region 04	Region 04	John Nolen	Engineering TSC	John McKernan	513-569-7415	Region 4	4/9/2014	(1) In Progress	Velsicol Chemical Corp. (Hardeman Co.)	Toone	TN			Dr. Ed Barth of the ETSC provided his comments on the design of a Soil Vapor Extraction system planned for installation at the Velsicol Site.

Region 05	Region 05	Carolyn Bury	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Marc Greenberg (OSWER/OSRTI-ERI [R02]) Katie Matta (R03) Bruce Pluta (R03) Carolyn Bury (R05) Bruce Duncan (R10)	7/8/2014	(1) In Progress					ERASC Request #021 Question: "Should we incorporate climate change issues in ecological risk assessments of contaminated sites?" Response Document Title: <i>Climate Change Issues In Ecological Risk Assessments at Hazardous Waste Sites.</i> Status Update: Response document is in initial stage of development.
Region 05	Region 05	Leah Evison	Ground Water	David Burden	580-436-8606	Region 5	4/1/2014	(3) Completed	Baytown Groundwater Contamination Site SR84	Baytown Township	MN		Technical review of the Draft In-Situ Chemical Oxidation and Enhanced Reductive Dechlorination Design Report.
Region 05	Region 05	Michael Mikulka	Engineering TSC	John McKernan	513-569-7415	Region 5	3/21/2014	(1) In Progress	Enterprise Todhunter site	Middletown	OH		Dr. Ed Barth continues to provide technical support to RfPMs at Enterprise Todhunter in the form of flare design to burn off excess propane, and assisting with solving issues with vent well installation, including minimizing ignition probability. Site visits to Middletown, OH, have been conducted. The proposed vent wells are to be installed on AK Steele property.
Region 05	Region 05	David Petrovski	Engineering TSC	John McKernan	513-569-7415	Region 5	6/16/2014	(1) In Progress	Clinton Landfill	Clinton	IL		Dr. Robert Ford is providing geochemical/hydrogeologic support on this TSCA landfill proposal for a facility located in central Illinois.
Region 06	Region 06	Jon Rauscher	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Thomas Dydek, Dydek Environmental Consulting	4/14/2014	(3) Completed					Asked if subchronic RfC values were still supported as means to interpreting contamination at clean-up sites, and requested a list of subchronic RfC values. STSC informed him that the STSC still supports current subchronic values and sent most recent update of PPRTV Quarterly Status Table.
Region 06	Region 06	Jon Rauscher	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Neeraja Erraguntla, TCEQ, TX State Agency	4/17/2014	(3) Completed					Requested to speak with internal reviewers of 2013 PPRTV 3.3'-Dimethoxybenzidine (CAS 119-90-4). Chemical manager Jason Lambert responded to requestor's questions which were technical in regards to the cancer section.
Region 06	Region 06	Mike Hebert	Ground Water	David Burden	580-436-8606	Region 6	10/23/2013	(3) Completed	Oklahoma Refinery Corporation Site	Cyril	OK		Completed evaluation of site data to determine if a technical impracticability waiver for the ground water at the site can be applied. The main issue of concern is that the connection between the ground water and surface water is not sufficiently known so that a definitive boundary could be drawn to indicate where such a waiver would apply.
Region 06	Region 06	Stephen Tzhone	Ground Water	David Burden	580-436-8606	Region 6	5/1/2014	(3) Completed	Arkwood Superfund Site	Arkwood	AR		Reviewed the Supplemental Groundwater Tracing Study Work Plan.
Region 06	Region 06	Gary Miller	Engineering TSC	John McKernan	513-569-7415	Region 6	2/9/2012	(4) On-Going	San Jacinto River Waste Pits (impoundments)	Channelview and Highlands	TX		Dr. Ed Barth provided comments on a San Jacinto River Waste Pits Feasibility Study including efficacy of more work/stabilization of the cap on site and potential removal scenarios.
Region 07	Region 07	Michael Beringer	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Michelle Hartman, Missouri Department of Health and Senior Services	6/12/2014	(4) On-Going					Requestor e-mailed STSC asking for reason why the PPRTV deriving an RfC value for trans-1,2-dichloroethylene (CAS 150-60-5) has been removed from the database. Provided a letter explaining IRIS rejected study the PPRTV was based upon.
Region 07	Region 07	Venessa Madden	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Venessa Madden (R07)	7/8/2014	(4) On-Going					ERASC Request #017 Question: "What is the appropriate use of allometric scaling in ecological risk assessments?" Response Document Title: <i>Body-Weight Scaling of Acute and Chronic Toxicity: Comparison of Health and Wildlife Perspectives, and Proposal for Refinement of Wildlife Assessments.</i> Status Update: Internal peer review was completed. Comments are being addressed.
Region 07	Region 07	Susan Fisher	Site Characterization and Monitoring	Bill Hagel	215-814-3053	Region 07	2/19/2014	(1) In Progress	Highway 3 PCE	LeMars	IA		This removal action site is located along Iowa Highway 3, Le Mars, Iowa. Contaminants associated with the Highway 3 PCE site include the chlorinated solvent perchloroethylene and its breakdown products. Presence of PCE at the site could stem from a number of potential sources. To assist Region 7 in understanding the fate and transport of PCE at this site, the SCMTSC developed a 3-Dimensional Conceptual Site Model (CSM). Geologic and hydrogeologic data were combined with PCE sampling data for ground water, soil gas, and soil to develop the integrated 3D model. The model will give Region 7 a thorough and intuitive understanding of site conditions. The model can be used to support site decision making and to assist in stakeholder communication about site risks. Additional data can be readily incorporated into the model as they are collected and become available.

Region 07	Region 07	Jason Gunter	Site Characterization and Monitoring	Felicia Barnett	404-562-8659	Region 07	3/18/2014	(3) Completed	Abandoned Lead Mines - Big River Mine Tailings	Farmington	MO	Region requested assistance in developing background lead concentrations for a large mining area where multiple mines and natural soil lead levels are a factor. SCMTSC analyzed the existing data. Based on the results, recommended additional samples be collected from specific areas or extract background threshold values using population partitioning with an example of how that is performed. Using the population partitioning would save or reduce additional sampling costs.
Region 07	Region 07	Don Bahnke	Engineering TSC	John McKernan	513-569-7415	Region 7	10/19/2011	(2) On Hold	Socioeconomic Impact from Lead Contamination (Omaha Lead)	Omaha	NE	Douglas Grosse is overseeing a research project to determine if there are societal impacts of lead exposure for those residing in and around the Omaha Lead Superfund site. A quality assurance plan has been approved. The contract with a third party has also been established to meet the terms of EPA's data use agreement with the state and county. A final report for this project is being drafted, and should be available for ETSC review in the 3rd quarter. The project is currently on hold, and the deliverable is delayed due to a contracting issue.
Region 07	Region 07	Dan Gravatt	Engineering TSC	John McKernan	513-569-7415	Region 7	6/1/2013	(4) On-Going	West Lake Landfill	Bridgeton	MO	Dr. John McKernan, David Carson, and Thabet Tolaymat continue to provide technical support to the Region in the form of site visits, reviewing and commenting on reports, and summarizing site data. Activities this quarter included participating in video and teleconference calls, and providing technical support for site characterization, sampling, and pre-design issues.
Region 08	Region 08	Susan Griffin	Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256	Raj Goyal, CO Dept. Public Health	5/21/2014	(3) Completed				Requested confirmation on current Cadmium (CAS 7440-43-9) RfD in diet on EPA IRIS is based on the administered dose or absorbed dose. Referred to IRIS hotline.
Region 08	Region 08	Steve Wharton	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Cornell Rosiu (R01) Steve Wharton (R08) Bruce Duncan (R10)	7/8/2014	(3) Completed				ERASC Request #0090 Question: "What are the mechanisms that may transport hydrophobic organic contaminants (HOCs) to ground water and downgradient media, and how will these mechanisms affect exposures, bioaccumulation and toxic effects on ecological receptors?" Response Document Title: <i>Hydrophobic Organic Contaminant (HOC) Transport Mechanisms in Groundwater and Downgradient Surface Water, and Estimation of Bioaccumulation and Ecological Risk.</i> Status Update: Final response document was posted on the NCEA internet and is available to the public.
Region 08	Region 08	Jaslyn Dobrahner	Engineering TSC	John McKernan	513-569-7415	Region 8	10/3/2012	(4) On-Going	RSES Tribal Housing Sustainability Tool	Denver	CO	Douglas Grosse revised a final draft of the Tribal Housing Sustainability Tool. The tool was shared with stakeholders for their review and comment, and the product was also presented at a conference in Kansas City this quarter.
Region 08	Region 08	Virginia Till	Engineering TSC	John McKernan	513-569-7415	Region 8	5/6/2014	(3) Completed	Request for Technical Assistance (Tribal Composting) Yankton Sioux tribe	Denver	CO	ETSC received a technical support request being addressed by Dr. Steve Rock on composting methods for municipal wastes for the Yankton Sioux Tribe.
Region 09	Region 09	Carolyn d' Almeida	Ground Water	David Burden	580-436-8606	Region 9	4/30/2014	(3) Completed	Former Williams Air Force Base	Mesa	AZ	Reviewed the Draft Addendum #1, Remedial Design and Remedial Action Work Plan for OU-2, Site ST012
Region 09	Region 09	Jere Johnson	Ground Water	David Burden	580-436-8606	Region 9	3/1/2014	(4) On-Going	Yerington Mine Site	Yerington	NV	Reviewed site-wide ground water monitoring plan. Reviewed the ground flow model for the site. Reviewed the Site-Wide Ground Water Monitoring Optimization Plan. Reviewed the remedial investigation (RI) work plan for the site wide ground water operable unit (OU-1) and response to previous comments.
Region 09	Region 09	Cynthia Wetmore	Site Characterization and Monitoring	Bill Hagel	215-814-3053	Region 09	3/20/2014	(4) Ongoing	Northeast Church Rockmine	Churchrock	NM	SCMTSC provided expert services of a geochemist with uranium mining experience to Region 9 to assist the hydrogeologist in writing a report on the water history at the Northeast Churchrock site (a uranium removal site). SCMTSC provided assistance in reviewing the Generalized Description of Uranium Deposits in the Grants Mineral Belt District of New Mexico and the mining influences on contaminated ground water. The report also discussed the post-mining operations impact on the geochemistry at the site. Region 9 used the report as a basis for a presentation to the Navajo Nation. The Navajo Nation asked EPA to expand the geochemistry analysis, and additional SCMTSC support may be needed in the future.

Region 09	Region 09	Robert Wise	Site Characterization and Monitoring	Felicia Barnett	404-562-8659	Region 09	4/14/2014	(3) Completed	Banaire Enterprises Removal	Cabazon	CA	SCMTSC provided statistical services in reviewing and refining site background calculations for each individual Banaire property. SCMTSC reviewed all datasets and performed an independent statistical determination of background for the BRA and each property. SCMTSC provided a brief report on findings supported with clear description of how the background values were determined including example step-by-step calculations that should allow staff to repeat the calculations on future projects.
Region 09	Region 09	Harry Allen	Site Characterization and Monitoring	Felicia Barnett	404-562-8659	Region 09	7/5/2012	(2) On Hold	Disaster Response Monitoring	N/A		Perform a statistical analysis evaluation of Region-provided data using different data analysis techniques and make recommendations for the most appropriate statistical analyses for the type of data taken during disaster responses. Awaiting additional data from Region.
Region 09	Region 09	Karen Scheuermann	Engineering TSC	John McKernan	513-569-7415	Region 9	5/14/2014	(1) In Progress	Life Cycle Inventory LCA project	San Francisco	CA	Paul Randall is servicing a request for Technical Support -- LCI Data for Use in Greener Cleanups Footprint Analyses. The bulk of the research associated with Karen's request is being undertaken by Jane Bare in the Sustainable Technology Division in NRMRL. The collaborative project is in progress; however, funding will be required in the near future.
Region 10	Region 10	Bruce Duncan	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Cornell Rosiu (R01) Steve Wharton (R08) Bruce Duncan (R10)	7/8/2014	(3) Completed				ERASC Request #009 Question: "What are the mechanisms that may transport hydrophobic organic contaminants (HOCs) to groundwater and downgradient media, and how will these mechanisms affect exposures, bioaccumulation and toxic effects on ecological receptors?" Response Document Title: <i>Hydrophobic Organic Contaminant (HOC) Transport Mechanisms in Groundwater and Downgradient Surface Water, and Estimation of Bioaccumulation and Ecological Risk.</i> Status Update: Final response document was posted on the NCEA internet and is available to the public.
Region 10	Region 10	Bruce Duncan	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Sharon Thoms (R04) Glenn Adams (R04) Bruce Duncan (R10)	7/8/2014	(4) On-Going				ERASC Request #018 Question: "Geochemical Evaluations--Statistics or no Statistics?" Response Document Title: Separating Anthropogenic Metals Contamination from Background: A Critical Review of Geochemical Evaluations and Proposal of Alternative Methodology. Status Update: Response document is in final preparation (i.e., external peer review completed; comments are being addressed).
Region 10	Region 10	Jean Zodrow	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Jean Zodrow (R10)	7/8/2014	(4) On-Going				ERASC Request #020 Question: Developing a tool to understand and assess the bioavailability of contaminants in soils. Response Document Title: <i>Terrestrial Metals Bioavailability: A Literature Derived Decision Rule for Ecological Risk Assessment.</i> Status Update: External Review Draft is completed.
Region 10	Region 10	Bruce Duncan	Ecological Risk Assessment	Mike Kravitz	513-569-7740	Marc Greenberg (OSWER/OSRTI-ERT [R02]) Katie Matta (R03) Bruce Pluta (R03) Carolyn Bury (R05) Bruce Duncan (R10)	7/8/2014	(1) In Progress				ERASC Request #021 Question: "Should we incorporate climate change issues in ecological risk assessments of contaminated sites?" Response Document Title: <i>Climate Change Issues In Ecological Risk Assessments at Hazardous Waste Sites.</i> Status Update: Response document is in initial stage of development.
Region 10	Region 10	Lon Kissinger	Site Characterization and Monitoring	Felicia Barnett	404-562-8659	Region 10	5/8/2014	(3) Completed	N/A	N/A	WA	Review of statistical procedures associated with the Washington State Department of Ecology's Sediment Cleanup Users Manual (SCUM II)

Region 10	Region 10	Roberta Hedeon	Site Characterization and Monitoring	Chris Sibert	702-798-2234	Region 10	6/4/2014	(4) On-Going	BP/Prudhoe Bay (RCRA)	Prudhoe Bay	AK	BP has contracted with Blue Water Satellite (BWS) to conduct spectral imaging of surface water bodies at the Prudhoe Bay facility. BWS plans to use aircraft to collect images which will be compared to sampling data collected by field crews on the ground. BWS plans to use this data to build/fine tune algorithms to site-specific conditions. They believe these algorithms will enable them to identify specific metals (Ba, Fe, Mg, As, etc.) concentrations in lakes/ponds across the site. All surface water samples for the imaging study are being collected in accordance with current Order-required background study sample plan and QAPP. SCMTSC is providing support regarding any information/restrictions/requirements specific to imaging the Region should consider in advance to shape the study (e.g., all surface samples must be collected within one hour of associated imaging). SCMTSC will also review the study report, probably in late fall or winter, with recommendations regarding usability of technology for future assessment of metals concentrations in surface water bodies at the site.
Region 10	Region 10	Elizabeth Allen	Site Characterization and Monitoring	Bill Hagel	215-814-3053	Region 10	3/5/2013	(1) In Progress	N/A	N/A		SCMTSC is supporting Region 10 in developing a method to passively sample herbicides in remote locations. Aerial applications of herbicides increases the potential for exposure via off target volatile phase transport. In addition, herbicides volatilizing from soils increases the potential for transport of off-site gaseous residues and long-term public exposure. To assist Region 10 in monitoring these potential exposures, SCMTSC will develop and validate a passive sampling device to assess ambient air concentrations where herbicides are applied on a broad scale. SCMTSC will develop and validate a method to extract and analyze target herbicides from polyurethane foam (PUF). We will determine the instrument detection limit for each of the target analytes and then use this information during method development to determine the additional steps in the analytical method, such as pre-cleaning the PUF and post extraction sample purification. The QAPP for this effort was generated and approved by EPA Region 10. SCMTSC completed Phase I of the method development (qualifying an extraction and analysis method for the target herbicides on PUF passive samplers) and is completing Phase II (deployment study/sampling rate experiment) with completion anticipated by September 2014.
Region 10	Region 10	Chris Eckley	Engineering TSC	John McKernan	513-569-7415	Region 10	1/9/2012	(4) On-Going	Black Butte Mine	Cottage Grove	OR	Dr. John McKernan and Dr. Todd Luxton are addressing this request. The RPM is interested in identifying mercury (Hg) and methyl mercury (MeHg) presence downstream from the Black Butte Mine (BBM). The Region and ETSC continue to investigate where and how much MeHg is available in the stream, and better understand the dynamic processes that cause methylation. A QAPP has been revised and approved for activities this year. Sampling at the site is continuing throughout the year in low pool and high pool reservoir conditions to determine the effect of pool level and MeHg production.
Region 10	Region 10	Helen Bottcher	Engineering TSC	John McKernan	513-569-7415	Region 10	4/29/2014	(4) On-Going	St. Maries Creosote	St. Maries	ID	Drs. Ed Barth and John McKernan provided review of an in-situ hydraulic conductance model and provided comments to the RPM to improve the design. Guidance was also provided to the Region regarding field engineering practices and guidelines for the remedial technique being employed.
		John McKernan	Engineering TSC	John McKernan	513-569-7415	TSC	12/1/2012	(4) On-Going	Dioxin and Arsenic Engineering Issue Paper	Vietnam		John McKernan continues to prepare and edit two ETSC engineering issue papers for dioxin and arsenic cleanup that summarize the available information on bioremediation techniques for dioxin and arsenic. These documents primarily condense information that can be found in more comprehensive reports, trade journals, and other scientific documents. The products were developed by external and internal experts on bioremediation. Drafts of each of the products have been reviewed by an expert panel. The arsenic documents are being slightly revised and should be finalized in the fourth quarter.

TSCs	Contact	Contact Phone
Superfund Health Risk Assessment	Scott Wesselkamper	513-569-7256
Ecological Risk Assessment	Mike Kravitz	513-569-7740
Ground Water	David Burden	580-436-8606
Engineering	John McKernan	513-569-7415
Site Characterization and Monitoring	Felicia Barnett	404-562-8659

Regions

Status

Region 01

(1) In Progress

Region 02

(2) On Hold

Region 03

(3) Completed

Region 04

(4) On-Going

Region 05

Region 06

Region 07

Region 08

Region 09

Region 10

State/Territory Abbreviation

A technical support request has been submitted to a TSC and they are currently working on a response, but at the time of the quarterly report a response to the Region or Program Office has not been produced.

AK

A request for technical support from the Region or Program Office has been made, but due to issues the technical support request is on hold (i.e. data has not been received, legal hold, conflict of interest, funding, etc.)

AL

A technical support request has been submitted and a response has been provided to the Region or Program Office. No further assistance on this site is anticipated at this time.

AR

A technical support request has been submitted and a response has been provided to the Region or Program Office, however the Region/Program Office and/or the TSC anticipates further assistance will be needed on this site/issue in the near future.

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State/Territory Name

Alaska

Alabama

Arkansas

American Samoa

Arizona

California

Colorado

Connecticut

District of Columbia

Delaware

Florida

Georgia

Guam

Hawaii

Iowa

Idaho

Illinois

Indiana

Kansas

Kentucky

Louisiana

Massachusetts

Maryland

Maine

Michigan

Minnesota

Missouri

Northern Mariana Islands

Mississippi

Montana

North Carolina

North Dakota

Nebraska
New Hampshire
New Jersey
New Mexico
Nevada
New York
Ohio
Oklahoma
Oregon
Pennsylvania
Puerto Rico
Rhode Island
South Carolina
South Dakota
Tennessee
Texas
Utah
Virginia
US Virgin Islands
Vermont
Washington
Wisconsin
West Virginia
Wyoming

TIP TO ADD TO ANY DROP DOWN LIST, TYPE A NEW ENTRY IN THE EMPTY CELL AT THE BOTTOM OF THE LIST

STSC Superfund Health Risk Assessment Support Center

ERASC Ecological Risk Assessment Support Center

GWTSCTSC Ground Water Technical Support Center

MSCTSC Monitoring and Site Characterization Technical Support Center

ETSC Engineering Technical Support Center

. TO DELETE, SELECT THE CELL, DELETE IT, THEN SELECT, "Shift cells up."

STSC supports EPA regional and headquarters Superfund risk assessors by reviewing and developing exposure and toxicity factors and accurate quantitative estimates of risk to be developed. Much of the activity is focused on developing new and updated peer-reviewed toxicity values that describe dose-response toxicological relationships. The center also provides user support and onsite expert assistance is provided on a rapid turn-around basis.

ERASC provides technical information and addresses scientific questions of concern or interest on topics relevant to ecological risk assessment at hazardous waste sites for EPA's Office of Solid Waste and Emergency Response (OSWER) and Regional Superfund/Resource Conservation and Recovery Act (RCRA) staff. To assess emerging and complex scientific issues that require expert judgment, the ERASC relies on the expertise of scientists and engineers located in ORD. ERASC develops responses that reflect the state of the science for ecological risk assessment and provides a communication point for the distribution of the responses to other interested parties.

Ground Water Technical Support Center provides site-specific assistance on groundwater and subsurface contamination problems and remediation. Focus areas include in-situ water treatment, in-situ thermal treatment, monitored natural attenuation, soil vapor extraction, permeable reactive barriers. The center also publishes issue papers on subsurface remediation and ground water topics and provides manager training upon request by the regions. The center supports Superfund, Brownfields, and RCRA Corrective Action sites.

This center provides scientific and technical assistance in the characterization of hazardous waste sites and associated site contamination. The science methods and technologies are identified and applied to identify contaminants, determine their levels and concentrations, and their geographic extent and distribution for site characterization and remediation.

Engineering Technical Support Center provides site-specific assistance on engineering and treatment issues during any phase of site remediation. Focus areas include containment, thermal treatments, soil vapor extraction, bioremediation, and solidification/stabilization. Support includes incorporating technology-based data needs in the RI/FS phase and conducting/evaluating site-specific remedy options in the RCRA construction phases. The center publishes Engineering Bulletins on technologies and site types and engineering issue papers on the remediation of contaminants in soil and sediment. The center also maintains and assists with developing technologies for remediation of abandoned and closed mine sites. The center supports Superfund, Brownfields, and RCRA Corrective Action sites.